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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,751	10/17/2003	Steven L. Wilmeth	20873.001	1981

42922 7590 10/20/2006

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EXAMINER
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HOOK, JAMES F

ART UNIT	PAPER NUMBER
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3754

DATE MAILED: 10/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	<b>Application No.</b> 10/688,751	<b>Applicant(s)</b> WILMETH ET AL.	
	<b>Examiner</b> James F. Hook	<b>Art Unit</b> 3754	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) 1-7 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 8-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____                                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____   | 6) <input type="checkbox"/> Other: ____                           |

## DETAILED ACTION

### *Election/Restrictions*

Claims 1-7 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on January 23, 2006.

### *Double Patenting*

The double patenting rejection was overcome by the filing of the compliant terminal disclaimer on July 24, 2006.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8-10, and 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilmeth. The patent to Wilmeth discloses the recited method of improving abrasion resistance of a section of piping for use in a pump delivery system of abrasive materials where the use of such method on a concrete system is considered merely intended use where the method is capable of use on any pumped abrasive material pipe system of which concrete is one such example and the method is capable of being used to coat pipes for concrete as well, comprising providing a tubular metal

Art Unit: 3754

body having an exposed exterior surface and a generally cylindrical internal surface, exposing the internal surface to an aqueous electrolyte solution containing at least water, chromic acid, and a catalyst such as a sulfate which is provided to increase plating rate, the internal surface is exposed to the electrolyte solution at a current density and at a plating temperature sufficient to form a chromium deposit of a desired thickness on the internal surface, where the chromium provides abrasion resistance, the chromium is deposited with an overlapping range with claim 9 (col. 3, lines 61-68), where 0.008 is set forth and where such is approximately a thickness of 0.010 inches, the electrolyte solution contains alkyl sulphonic acid and an anion of molybdenum, where the amounts of these substances are disclosed in overlapping ranges to those set forth in claim 14, where the current density and temperature ranges of claim 15 are also taught by Wilmeth in overlapping ranges, wherein the alkyl sulphonic acid is a saturated aliphatic having the limitations of claim 16 discloses, the cathode efficiency is greater than 18%, and the current applied can be pulsed DC current to provide an alloy of chromium having at least 1.5% molybdenum deposited. The subject matter added to the preamble with regards to an adjustable boom structure is not considered to breath any life into the body of the method claim where the method would be capable of use on any type of pipe for delivering abrasive materials. The patent to Wilmeth discloses all of the recited structure with the exception of setting forth dimensions of the tubular body, however, such is merely a choice of mechanical expedients where one skilled in the art would only require routine experimentation to arrive at optimum uses for the method where such would obviously be useable on any sized piping when one skilled in the art

would only require routine skill to adjust any variables that need to be adjusted to apply the method to specific sized pipes where such is merely a choice of mechanical expedients.

Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilmeth in view of Leland. The patent to Wilmeth discloses all of the recited structure with the exception of providing a step of smoothing by honing of the interior of the pipe. The patent to Leland discloses that it is old and known in the art to provide a honing step to smooth the interior of the pipe being plated with chromium. It would have been obvious to one skilled in the art to modify the method in Wilmeth by including a step of honing the interior of the pipe being plated in chromium as suggested by Leland as such is an equivalent method used to plate with chromium and would insure a smooth inner finish that would be less likely to be different in thickness thereby providing weak portions which would cause premature failure and cost more money in repairs.

### ***Response to Arguments***

Applicant's arguments filed July 24, 2006 have been fully considered but they are not persuasive. The language added in regards to the boom structure is set forth only in the preamble and does not breathe any further life into the body of the method claim of coating a pipe to prevent wear. With respect to any argument directed toward the size of the bath, such is not persuasive when such is not a limitation of the method, and one skilled in the art would only need routine skill to conduct the method of Wilmeth on other

Art Unit: 3754

sized pipes. Size is also not considered critical to the method claim when such is more of an article limitation than a method limitation, and the size of the article being coated would not affect the overall method used to coat the article other than what one skilled in the art would have the skills to perform using routine experimentation to arrive at optimum sizes of equipment needed to coat different sized pipe as such is merely a choice of mechanical expedients.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

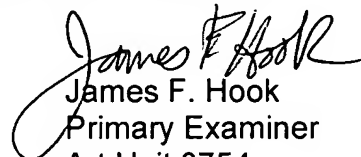
Any inquiry concerning this communication or earlier communications from the examiner should be directed to James F. Hook whose telephone number is (571) 272-

Art Unit: 3754

4903. The examiner can normally be reached on Monday to Wednesday, work at home Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
James F. Hook  
Primary Examiner  
Art Unit 3754

JFH